

CLAIMS AMENDMENT

1. (Currently Amended). A method for treatment of neuroleptic malignant syndrome or psychosis in a human being comprising administering to said human being a composition comprising an effective amount of a homer expression modifying compound other than haloperidol.
2. (Original). A method according to claim 1, whereby the psychosis is schizophrenia.
3. (Withdrawn). A method for treatment of oncological disorders in a human being comprising administering to said human being a composition comprising an effective amount of a homer expression modifying compound.
4. (Currently Amended). A method for treatment of neuroleptic induced disorders or psychosis in a human being comprising administering to said human being a composition comprising an effective amount of a homer expression modifying compound other than haloperidol which interacts with metabotropic receptors.
5. (Original). A method according to claim 4, whereby the interaction effects an inhibition of the metabotropic receptor.
6. (Original). A method according to claim 4, whereby the compound is 2-methyl-6-(2-phenylethenyl)pyridine or 2-methyl-6-(phenylethynyl)pyridine hydrochloride.
7. (Currently Amended). A method for treatment of neuroleptic ~~maligne~~ malignant syndrome in a human being comprising administering to said human being a composition comprising an effective amount of a homer expression modifying compound which interacts with metabotropic receptors.

8. (Withdrawn). An isolated nucleic acid as disclosed in appendix 1 to 4.
9. (Withdrawn). A method of screening of new compounds which modify homer expression using, Hel cells, A-172 cells, U97 cells or glial cells as described in example 3-9.
10. (Withdrawn) A method of screening of new compounds modifying homer and metabotrope receptors or homer and other cell signalling proteins using glial cells, or Hel cells, or A-172 cells or U97 cells as described in examples 13, 14 and 24 to 26.
11. (Original). A method of treatment of CNS disorders in a human being via glial cells comprising administering to said human being a composition comprising an effective amount of a compound, which is able to act on glial cells and which is able to modulate the expression of homer.
12. (Canceled)
13. (Withdrawn) A method according to claim 12 where the disease is degenerative disease involving cell degeneration or cell death or apoptosis and the disease-associated-target is human homologue of AFG2 protein.
14. (Withdrawn) A method according to claim 12 where the disease is neurodegenerative disease including ischemia and stroke and the disease-associated-target is insulin like growth factor binding protein.
15. (Withdrawn) A method according to claim 12 where the disease is hepatic degenerative processes and the disease-associated-target is interleukin 6 binding protein.

16. (Withdrawn) A method according to claim 12 where the disease is tissue degenerative processes involving cell death or apoptosis including neurodegenerative disease and ischemia-induced degeneration and the disease-associated-target is cytochrome oxidase or cytochrome P450 XIA1 or topoisomerase I.

17. (Withdrawn) A method according to claim 12 where the disease is human diseases including brain diseases and tumour progression and the disease-associated-target is GPI-linked NAD-arginine ADP-ribosyltransferase.

18. (Withdrawn) A method according to claim 12 where the disease is metabolic disorder including obesity and the disease-associated-target is pyruvate carboxylase.

19. (Withdrawn) A method according to claim 12 where the disease is associated to cholesterol production including senile disorders and the disease-associated-target is low density lipoprotein receptor related protein.

20. (Withdrawn) A method according to claim 12 where the disease is a human neurodegenerative disease and the disease-associated-target is human F-spondin.

21. (Withdrawn) A method according to claim 12 where the disease is herpes simplex infection and propagation and the disease-associated target is DNA helicase/primase complex associated protein.

22. (Withdrawn) A method according to claim 12 where the disease is herpes simplex virus infection and propagation and the disease-associated-target is UL56 protein.

23. (Withdrawn) A method according to claim 12 where the disease is varicella zoster virus infection and propagation and the disease-associated-target is serin/threonine-protein kinase.

24. (Withdrawn) A method according to claim 12 where the disease is sarcoma virus infection and propagation and the disease-associated-target is sarcoma virus receptor.

25. (Withdrawn) A method according to claim 12 where the disease is Japanese encephalitis virus infection and propagation and the disease associated-target is NS proteins.

26. (Withdrawn) A method according to claim 12 where the disease is bovine immunodeficiency virus infection and propagation and the disease-associated-target is virion infectivity factor (factor Q).

27. (Withdrawn) A method according to claim 12 where the disease is pox virus infection and propagation and the disease-associated-target is protein A11.

28. (Withdrawn) A method according to claim 12 where the disease is trypanosomiasis and the disease-associated-target is retrotransposable element slacs 45 kd protein.

29. (Withdrawn) A method according to claim 12 where the disease is propagation and infection of candida albicans and the disease-associated-target is topoisomerase 1.